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very good - deserving the
praise of the Med. Community }

An

Inaugural Essay
on

Paralysis or Palsy
for the

Degree of Doctor of Medicine
in the

University of Pennsylvania
by

Henry Myers

of

Virginia

Philadelphia January 2nd 1828

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Paralysis or Palsy.

The term Palsy is an abbreviation of Paralysis or Paraly-
sis, which is derived from the Greek verb *παλαιο*, signifi-
ing "to weaken" - Palsy, and Apoplexy were esteemed among
the most ancient writers, as the same disease. Whether the
word Paralysis or Palsy is to be found in the works of Hip-
pocrates, but Dr. Cullen incidentally speaks of the affection con-
der the head of Apoplexy, and (according to Dr. Cooke) Al-
bucasis, Galen, Alexander Trallianus, Aetius, and Paulus Aeg.
+ Aetia, describe the different heads of Paralysis, as Apoplexy,
and assert that they are one, and the same. The general
opinion upon the subject now is, that they are in a mea-
sure the same, in as much as, each is frequently produced
by the same Causes, presenting similar symptoms, and
exhibiting at times, like phenomena. Dr. Ford tells us, that
though Palsy does resemble Apoplexy very nearly in all its
symptoms, and general nature, and is often occasioned by
it, yet, the former should be considered more strictly a ner-
vous affection, and also connected with a morbid state of
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the sanguiferous, or respiratory organs; and that, tho' the nervous both of motion, and of sensation, may be equally affected, and some of the faculties of the mind, may participate in that affection, yet, the latter are never lost in the same degree, as they are in Apoplexy. Thus, there is one great distinction between the two diseases; that, the intensity of Action, and the extent of, morbid influences, is much greater in Apoplexy, than in Palsy. Yet this is not the sole difference; for, tho' Apoplexy may, and, doubtless does often terminate in Paralysis, it is not by any means a necessary result; for it often exists without leading to any such effect, and Palsy may make its appearance, without any previous attack of Apoplexy. Again, tho' the diseases doubtless possess common symptoms, yet, there are some belonging to peculiarly to each, tho' they can never be confounded.

Many and various have been the definitions given of Palsy, but they seem to have been formed rather for the support of some favorite theory, than as an accurate

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accurate description of the disease. Some have defined
 it, "An impotence of motion"; others, "An incapacity of
 sense, or motion, when the person is awake"; and a third,
 "A cerebral torpidity, and muscular immobility, more or
 less general, without demerit." Dr. Cooke, in his highly
 instructing, and excellent work on "Nervous Diseases," in
 addition to these, has enumerated many others, while im-
 perfect, and has offered one, which he considers "a Compre-
 hending all the Chief Characteristics of Palsy." He says,
 "It is a disease, in which there is a diminution, or total loss,
 of the power of Voluntary motion, or of sensation, or of both,
 in some particular part, or parts, of the body, without Cause."
 Whether there is ever an entire loss of sensation is a point
 not precisely settled, but the weight of Authority appears
 to be greatest on the side, that the power of sensation does
 exist in some degree in all Cases, and is not at all im-
 paired in many. Indeed the same Author, shortly after-
 wards, observes that "Palsy Chiefly Consists in the loss of
 Voluntary Motion, for sensation is a greater or less degree
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generally remains, may, in certain cases, it is markedly
increased"; and then states, "I never saw a case of Par-
aly in which sensation was entirely lost". On this point
Dr. Ford speaks very clearly, and nearly to the same an-
swer. He says "The sense chiefly affected, are those
subservient to voluntary motion, but the accompan-
ing process of feeling, in most cases, participate in the
lesion, tho' not in an equal degree". The appearance
of "paralysis" might deter me from attaching any
opinion of Dr. Cochi's, were I not supported in so being
led by the authority of that eminent gentleman himself,
and of Dr. Ford. It is very evident that the statements of
the former (which follow his definition and which are
quoted from him above) are really in direct opposition
to that part of his definition, which lays, "that palsy consists
in a total ^{loss} of sensation". Were it not better to have said, "It
is a disease in which there is diminution or an entire
loss of the power of voluntary motion, accompanied gene-
rally by a greater or less diminution of that of sensation without
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Come? This alteration is humbly suggested, as it may per-
 haps lead to a more correct idea of the disease; if it is
 wrong, it is the result of a misconception and can do no
 injury to the reputation of the author, who genius, and whose
 experience have shed so much light upon the medical
 world. The humble follower in the path of science, has
 still left him but to conjecture, for while there are many in-
 fants still involved in darkness, and in misery, they have
 been so often afflicted by the latent if previously present that
 we are forced to turn from their investigation in despair, with
 the sad conviction, that he who would share in the present
 day, must be content to do so with a borrowed light.
 When next time occurs, we will account for the fact,
 that in the infant there may be a life of motion, while the
 sense of sensation remains entire, and that sensation may
 be impaired, without any injury of the power of motion.
 Different theories have been advanced. The present explanation
 seems to be, that there are two sets of nerves, one for motion, the
 other for sensation. They are distinct in their origin, course, and
 distribution.



always, but confined on the same month; and that on this ac-
 count, the nerve of Motion may be injured, without at all in-
 volving the nerve of Sensation. Dr C. Bell in his late work
 on the nervous system, gives an account of his experiments upon
 e.g. Rabbits, and Apes, in which, he denuded the course of motion,
 the consequence of which was, a loss of the power of motion on
 the part supplied, by that nerve, while the power of sensation
 was in no way lessened; and of cases in which he divided the
 nerve of Sensation, in which case, the power of sensation was
 lost, while that of Motion was as perfect as ever. It would
 appear then that an injury done to one set of Nerves, does
 not necessarily produce a corresponding effect upon the other
 set, which at once explains the apparent Phenomenon in
 the same author in a communication upon the subject to
 Dr. Porter. Concludes with the remark, "that instruction &c. did
 not produce an effect as that of Salicy on one side, and Corals
 on the other side of the shell. But the subject has
 appeared to me so obscure, and difficult, that I have never
 ventured to grapple with the question &c. - Of this point
 I have not yet

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Phrenologist has never ventured to grapple with the question, as
must wait with patience, until some and a longer experience
shall dispel the obscurity which envelops it and be
able at present to know that the fact is so without being
able to account for it - Another matter of dispute among phre-
nologists is whether the sensation of pain is connected
at all with an attack of it, but is now generally considered
to be so, and should be considered as one of the characteristics
of the affection.

Paralysis is divided into three distinct species,
as it is said to be situated in which it attacks and to the parts
affected. When one half of the Body is affected, longitudo-
nally, this is termed, when one side of the Face, and the arm,
leg, &c. of that side is the seat of the disease, it is denomi-
nated 'Hemiplegia'; when the Body is attacked transversely,
it assumes the name of 'Paraplegia', and when only cer-
tain muscles, or a particular limb becomes paralytic, it is
called, 'Paralysis partialis' - The first is met with more fre-
quently, than either of the other two and in the young cases.



Cause, is the effect of Apoplexy; while many instances occur, in which it cannot be traced to any such disease. Some Authors assert, whose opinions are esteemed highly, that by a strict attention, and a rigid examination, some of these appearances of Apoplexy will, in ^{the} a greater number of Cases, be found to succeed an attack of Paralysis.

'Paralysis' is said, most generally, to be owing to some disease of, or injury done to, the ^{almost} Spine. It may always be ascribed to this Cause, when the lower half of the Body is affected, & this, in the opinions of most writers on the subject; is often the seat of the disease, than the upper part of the Body. Some of the Causes of Hemiplegia, and Consequently of Apoplexy, are also enumerated among those of this form of the disease. When it arises from injury, or disease of the Spine, it is said to make its attack suddenly, and in the other case, its appearance is reported to be slow and its approach insidious. 'Paralysis Paralytica' may be the effect of the general Causes of the ^{other} Paralysis, or, to be more exact, to have Causes acting in a slighter degree, or, not being sufficiently powerful.

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to produce one of the other forms. But local palsy may be the forerunner of, or, supplant, or 'paraplegia', and its further progress being revealed, it may be made a case in this limited extent, thus rendering it ascertainable to one of these diseases, or to the cause producing these affections. But local palsy has its own peculiar causes independent of either of the other forms. These are, tumours pressing upon the nerves, exposure of a particular part of the body to a current of cold, dampness, and, also exposure to the fumes of certain metallic substances, especially of Lead and Mercury. Workers in these articles are said to be particularly liable to the disease, and instances are related of persons having been attacked, from sleeping in a newly painted room in which white lead had been employed; and others, when they have been seized with it from staying in a room in which lead is employed. By neither; while Cases are not wanting to prove the fact, that the mercurial preparations are equally instrumental to the palsy of certain muscles as also enumerated among the other causes, and likewise irritation of the intestines.

Causes of General Palsy. The predisposing Causes of

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This disease are the same as those of Ophthalmia as much as the latter affec-
 tion generally precedes the former. These are usually advanced Age, debilitated Constitutions, and certain
 peculiarities of the System. Although the disease most frequently makes its attack upon persons advanced in years,
 yet children are by no means exempt. They may be heredi-
 tarily disposed to it, or they may possess those habits of body,
 which are known to favor and facilitate the existence of this
 Malady; such as a large head, short neck, Corpulency &c.
 A sedentary mode of life especially when accompanied
 by habits of intemperance in eating or drinking; the suppres-
 sion of certain accustomed discharges as a suppuration
 of the Breasts, or of a copious hemorrhoidal flux, or the sup-
 pression of long standing Menstrual Flux.

The Chief exciting Causes are exposure of Head and Face
 to the rays of the Sun too frequent use of the
 warm bath, drinking hot, potent liquors immediately
 &c. The passions of the mind as grief, Fear, and Anger fre-
 quently produce the disease. There are also several

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of Apoplexy, but here Palsy draws a line of distinction between itself and that disease; for although the above are causes common to both yet if they do not act in a sufficient degree to excite apoplexy, the consequence may be Palsy. Much dispute has arisen as to the influence of compression in this disease. The advocates for it, say, that it is always owing to compression, others that it never is. The former adduce many experiments to substantiate their opinions; among these is M. Portal. Dr. Cooke has enumerated many of this Gentleman's experiments, on which preference, if sufficiently strong, and long continued, did bring about the result; whilst M. Lorry, who denies the theory of pressure, says, that in no experiment conferred him in his opinion. - There are these contradictory statements to be reconciled? The result into which these Gentlemen seem to have fallen is that, as it then declares pressure to be always the cause, and the other ^{this} however is - The fact then appears to be, that Apoplexy, and Palsy may very often be ascribed to this cause, and that, in many instances this cannot be traced to it.

The Diagnosis and Prognosis, are said to be easy. -
in long



History of the Disease: when remission ^{is} not of History, which it
most resembles) will enable us to establish the first, and renders
it so manifest that there is fear of mistaking this for any other
affection. If the distinction is observed, a greater freedom
of motion established, the action of the Viscera regular, and
especially a sense of returning warmth experienced, the Prog-
nosis is favorable. But if the Disease has been so long standing
the limbs much wasted, and debility considerable, a cure is
deemed nearly hopeless.

Treatment This is decided by authors such that which is
applicable is Hemiplegia, that to Paraplegia, and that to
Local Palsy. The general treatment of the Disease may
be summed up in a few words. The limits of a Thesis will not
allow ^{me} to enter into ^{that} appertaining to the different remedies, which
at best would necessarily be a compilation, my experience
being too slight to warrant my suggesting any thing new,
but I will, briefly, with the permission of those before whom
this paper has to appear, state a Case of Hemiplegia which
fell under the treatment of my Preceptor Doctor John Cutler

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of Richmond, is attending Physician of the Epizootic Hospital
 place, and the purveyor of which, I had the honor, and satisfaction
 of corresponding with him. The general Treatment of
 Palsy divides itself into that which is proper as a preventive
 and that which is suitable when the disease has made its
 appearance. It has been stated, that certain habits
 of the Body, predispose to the disease, such as a large thin chest
 and so. Under these Circumstances, we cannot remove the predis-
 posing Cause, so that our remedies must consist of those articles which
 will operate as palliatives. These are first, abstinence from all
 vigors which tend to heat the system, and increase arterial ac-
 tion, moderate exercise, so as to induce perspiration without fatigue
 and so. the body would become enervated, and be great an action
 in the lungs induced. The exercise of the feet might be ascer-
 tained, flux of Blood to the head. The Arteries should be kept
 open by mild Laxatives, and, Dr. Cote recommends, in cases
 where there is a natural tendency to apoplexy, Bleeds, leeches, or
 issues, in the neighborhood of the head, so as to keep up a constant
 discharge. When the disease has made its appearance

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attended by Apoplectic symptoms, venesection must be resorted to. This of course is to be regulated by our circumstances, as the age of the Patient, his general Constitution, Strength &c. But when, & in what manner, is indicated. The Lancet must be used. & only in the quantity of Blood drawn should be large, and repeatedly taken. Purgatives are next to be employed, until the Stomach has been freely evacuated. Emetics next claim our attention, but these are to be given with considerable Caution. The more much when thrown into violent action tends greatly to increase the flow of Blood to the Head, and whilst any such disposition in the system remains, emetics should be avoided if possible or, if there be an accumulation of food & matter in the stomach, they should be postponed, until that predisposition is removed.

Diaphoretic, Secretoric and Styragicæ may have all had their advocates, but in the present day are seldom, or never employed. When the disease is of long standing, and a tendency to Apoplexy has developed, or, in other words, when it exists only as Palsy, independent of its primary causes and symptoms.

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Ignitions Stimulants become highly useful. These are ap-
plied externally, and internally. Of the former, Friction,
Blister, transpass fermentations, the warm and cold bath, &c.
stercity, and Galvanism, have all had their share of successes.
Electricity, particularly, has been found beneficial. The Euro-
pean writers, and especially the French, speak very highly
of it. Many cases are recorded of its efficacy, upon authority,
which must ever command respect. The mode of applying
it is by means of the wooden point, by which it is administered
liberally, and moderately, and the ill consequences, by some said
to result from a shock or spark, avoided. The remedy however
has failed in many instances, and its effect, though beneficial
at first, being transient, it has of late years, been less used.
The same may be said of Galvanism, which we are recommended
to apply moderately at first, and to increase the number of plates
and consequently the force, gradually. The actual, Case
Troy, and Morse have both been employed, and are much
contended in by some practitioners.

The principal external stimulants are, the Rhaz
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Tricostendren, or Pison bark, the & thickened & dried, the more rich, and the most used. The leaves of the Pison bark are used, given at first in the dose of half a grain, repeated twice, or three times ~~ad~~ during the day; this then gradually increased to three, four, five, and six grains per diem. The true Verica resembles the Pison bark in its effects, but possesses this advantage, that we are able to administer it in larger doses, without the fear of doing an injury to the patient. This remedy was employed in the case alluded to above, on account of which I shall now give.

Elphs Hughes, a gen. forty-two, belonging to the City Guard, was attacked, on the night of November, 1826, while on guard, with vertigo, loss of muscular ^{power}, and speech, his consciousness to his own accounts, retaining perfect consciousness. In about fifteen, or twenty minutes, he recovered a partial use of his speech, and the entire muscular power of the right side, there being a total paralysis of the left, attended with a sensation of great coldness, and a difficulty of micturition. Several days previous to the attack, he had complained of occasional vertigo.

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verigo, which was ascribed to his intemperate habits. He was
admitted into the Infirmary at Richmond in April 1827, and
was first seen by Dr. John Cullen in the first of June following.
From what could be learnt of his previous treatment, nothing
more than slightly Stimulating Punctures had been employed,
which were productive of little or no benefit. The left side still
paralytic with the exception of cold: the patient complaining
of occasional shooting pains in the calvaria, and difficulty
of passing his urine; his face distorted, and drawn to the right
side - pulse small, regular, and at about sixty beats per
min. and the functions of the digestive Canal well performed.
He was ordered, Sub. Mur. Hydr. gr. xij

Pulv. Jalap. - ʒss, which operated
well, and the day following the treatment with Nux Vomica
commenced. Two pills, each containing grs iij, were given him
during the day, which quantity was continued four days with-
out any visible effect. Three pills were now ordered, each con-
taining grs iv, when at the expiration of three days the number
was increased to four pills per dose. The day following he
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taking this medicinal remedy, the patient reported that the
 leg of the affected side, had been drawn forcibly upwards,
 and forwards, and the arm of the same side, backwards; and
 that there was a sense of great relief over the entire palsy.
 The physician The continuance of the four pills every attended with
 an additional effect, at the expiration of four days, another
 pill was added to the number, which served only to keep up the
 convulsive movements - Twenty four grains were now ordered,
 when so remarkable an occurrence of the effect took place, that
 the Patient was hurried up several times, when on the next
 morning - The dose was continued a few days, when finding
 no further improvement, twenty eight grains were then
 ordered - The effect of this quantity made its appearance about
 eight, when the patient was again seized by being, as he
 reported, so forcibly drawn from his bed, that he thought some
 one was actually raising him - The remedy was now con-
 tinued for a time, an active Cathartic prescribed, and the
 spine irritated in its whole course with Charas Emulsi-
 oinment. The healthy side, during all this period was



was not affected by the remedy, nor did it excite any disturbance of the head, stomach, or intestines, its action being confined to the paralytic side exclusively; to which had been so far benefited, as to enable the patient to walk with tolerable facility, & to strength the manual exercise, indicating the partial restoration of muscular power to the arm, and the disturbance of the face was considerably diminished. The treatment was suspended for some days, during which time, he was ordered to take moderate exercise, when, on the 12th of Feb., the *Veronica* was resumed, in the dose of barely four grains three times a day, which on the 14th was increased to thirty six grains. This reproduced the convulsive movements, amounting now to violent spasms, on which account the remedy was again laid aside. His general health is now good, the power of motion on a great measure restored, no difficulty of masticating, and an equality of heat over the whole system established, while the disturbance of the face is scarcely perceptible.

Many Cases similar to this, have been recorded, attended with like results, from the use of the *Stramonium* *Veronica*.

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Umeas, and every one that is now added to the list, will serve to strengthen our sentiment in it. The use of this Medicine is said to have been attended with various symptoms, and this most probably arises from its abuse, not from its use. But it takes place in a proportionate number of cases, we are warranted in employing it.

The root of the Horse Radish, and the seeds of the Sinapec, or Mustard are given on substance, in infusion and decoction, in large doses; and are pronounced to be efficacious. The whole Catalogue of Stimulants has been exhausted by different Authors. The Cintharides, and volatile Alkali however, deserve particular attention, and we should certainly place great Confidence in the latter, when we find it acting so powerfully, and so beneficially, in the greater number of diseases, which require the use of this Class of Remedies. When a Case has been perverted, the Patient should be cautioned never to expose himself to a cold, damp atmosphere, to avoid all strong liquors, and to be very temperate in his diet. The Hæmorrhoides, or piles

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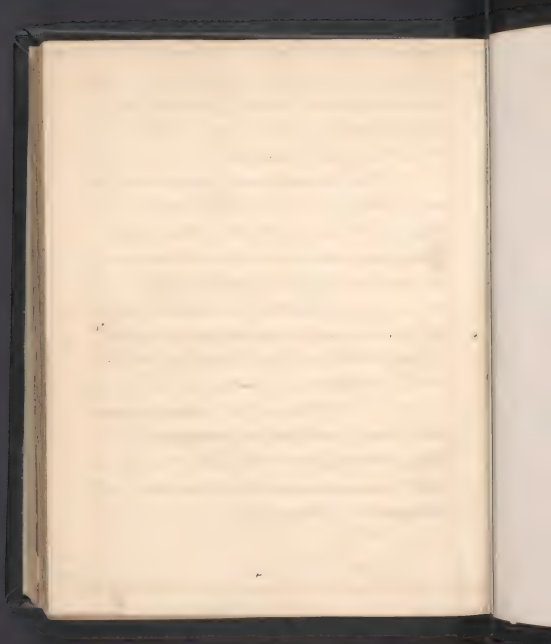
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and worn next the skin has been found by some of our most
eminent practitioners a great preservative against cold, and
should be used by such patients.

I have thus endeavored to give the History, Char-
acter, & Use of Salicy; not however with the ^{slightest} hope that I could
suggest anything new or instructive. But in the long
List of Diseases "that flock is here to", none is better calcu-
lated to command the attention of the Physician, or excite
the sympathy of the Philanthropist, than the one just en-
ter considered;— for it is one, where savages are not
confined to the Body, but often extend to the Mind; yes,
not causing immediate death the true, but which dooms
the sufferer to a life of mental, and corporeal activity,
and care. Certainly, which, when completely under our Con-
trol, will add greatly to the many comfortable affections
of the Practitioner, and entitle him to the appellation of the
Benefactor of Mankind.







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